

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of the Claims**

1-18. (Canceled)

19. (Currently Amended) A method for increasing cerebral blood flow in a patient, comprising the steps of:

providing an elongate member having a proximal end, a distal end, and an electrical stimulating device mounted on the distal end of the elongate member;

inserting the elongate member between lumbar vertebrae, low cervical vertebrae, or high thoracic vertebrae into the subarachnoid space;

advancing the electrical stimulating device cephalad and positioning the electrical stimulating device adjacent the brain stem; [[and]]

measuring cerebral blood flow;

operating the electrical stimulating device to stimulate or inhibit nerve impulses of the brain stem, thereby producing vasodilation in the cerebral vasculature, thereby increasing cerebral blood flow; and

measuring cerebral blood flow after the step of operating the electrical stimulating device.

20-54. (Canceled)

55. (Currently Amended) The method of ~~claim 54~~ claim 19, further comprising the step of determining the increase in cerebral blood flow produced by operating the electrical stimulating device.

56. (Previously Presented) The method of claim 19, wherein the electrical stimulating device is positioned at a region adjacent the medulla.

57. (Previously Presented) The method of claim 19, wherein the electrical stimulating device is a GRASS stimulator.

58. (Previously Presented) The method of claim 19, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a rectangular square pulse.

59. (Previously Presented) The method of claim 19, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a pulse of 1 msec duration, 50 Hz, and 10 volts, with a stimulus train duration of 20 msec.

60. (Previously Presented) The method of claim 19, wherein the electrical stimulating device is operated to produce electrical stimulation comprising a pulse of 0.1-3 msec duration, 25-75 Hz, and 5-15 volts, with a stimulus train duration of 10-30 msec.

61-68. (Canceled)